



## Plogg® brings ZigBee enabled intelligence to the humble plug

EOL has designed and produced a range of Smart Meter Plugs that connects to a PC or Ethernet connection using a ZigBee mesh network.

Whether for use in the office, retail chain, hotel or home, the ZigBee mesh network supports multiple installations and enables communications across multiple sites.

### Plogg-zgb

The ZigBee enabled **plogg®** device carries a low power 2.4GHz ISM band transceiver from Telegesis based upon the Ember EM250 system on chip ZigBee solution. The **plogg®** can act as an End Device, a Router or a Coordinator. The transceiver module operates on an AT command line interface that allows for cost effective customization.



Offering Class 1 meter accuracy combined with embedded 64kB data logging, relay and network options the **plogg®** system offers:

- Wireless energy management at appliance level
- Short payback < 1 year
- Increased awareness of energy waste
- Integration with Building Management systems
- Enables appliance performance comparisons
- ZigBee network support
- PC & PDA reporting platforms
- Remote ON/OFF switching

## Customer Profile

Energy Optimizers Ltd. (EOL) specialise in delivering energy saving solutions in the area of industrial and commercial lighting.

EOL is based in the UK and is a wholly owned subsidiary of T H Brown Limited, a group of companies established for over 70 years.

EOL's philosophy is to seek innovative, technical solutions that assist customers eliminate unnecessary wastage, reduce energy consumption and save costs.

## Telegesis Products

- Ember ZigBee Mesh Networking
- ETRX2 modules

## Technology Solution

EOL has designed a Smart Meter Plug that places energy consumption data onto your PC, PDA or Internet server via a ZigBee wireless mesh network.

## Plogg- zgb EAP

To further extend the flexibility of the **plogg®** range EOL also offers an Ethernet Access Point. This is a gateway which allows access to the ZigBee mesh networking modules over an industry standard Ethernet IP network. For example multiple EAP's can be deployed – each connected via Ethernet to a ZigBee PAN network in different parts of the building giving secure access to the **plogg®** installations over the internet from anywhere in the world.



“We have a Bluetooth enabled Smart Meter Plug,” says Shaun Merrick, Sales Director at Energy Optimizers. “But to enable really significant networks of our wireless energy management technology only ZigBee technology offers the complete solution.”

EOL has used Telegesis ETRX2 modules and Ember mesh networking technology in their **plogg®** Smart Meter Plug products.